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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/798,305	10/798,305 03/12/2004		Takahiro Kume	742158-9 5795	
25570	7590	11/16/2006		EXAMINER	
ROBERTS	MLOTE	KOWSKI & HOBE	CHANG, VICTOR S		
P. O. BOX 1	0064				
MCLEAN, VA 22102-8064			ART UNIT	PAPER NUMBER	
				1221	· · · · · · · · · · · · · · · · · · ·

DATE MAILED: 11/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	T :						
·	Application No.	Applicant(s)					
Office Action Summary	10/798,305	KUME ET AL.					
Office Action Summary	Examiner	Art Unit					
	Victor S. Chang	1771					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 30 O	otobor 2006						
	Responsive to communication(s) filed on <u>30 October 2006</u> . This action is FINAL . 2b)⊠ This action is non-final.						
·—							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-23 is/are pending in the application.	Claim(s) <u>1-23</u> is/are pending in the application.						
4a) Of the above claim(s) 4-8 and 10-20 is/are	4a) Of the above claim(s) 4-8 and 10-20 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	_						
6)⊠ Claim(s) <u>1-3,9 and 21-23</u> is/are rejected.	_						
7) Claim(s) is/are objected to.							
· ·	· ·						
Application Papers							
9) The specification is objected to by the Examiner.							
9)☐ The specification is objected to by the Examiner. 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119	·						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
·	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							

Attachment(s)	•						
1) Notice of References Cited (PTO-892)	A) The latest form the contract of the contrac	(DTO 442)					
2) Notice of Carefus Cited (P10-692) Notice of Draftsperson's Patent Drawing Review (PT0-948)	4) L Interview Summary Paper No(s)/Mail Da						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application							
Paper No(s)/Mail Date 6) Uther:							

DETAILED ACTION

Introduction

- 1. Applicants' amendments and remarks filed on 10/30/2006 have been entered. Claim 1 has been amended. New claims 21-23 have been entered. Claims 1-3, 9 and 21-23 are active.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Since the amendment appears to contain numerous new matter, and vague and indefinite issues as set forth below, the rejection over JP 10-249729 is withdrawn from the present Office action, and to be reinstated, if appropriate, after the following rejections under 35 USC 112 are resolved. Applicants' arguments directed to JP '729 are moot.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 5. Claims 1-3, 9 and 21-23 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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More particularly, applicants fail to provide a matching support in the specification for newly added limitations, nor could the examiner find inherent or express support for the amendment. Specifically, in claim 1, the new limitations "uniform distribution ... in a direction of the width" [lines 8-9], "foam cells ... having an average space volume" [lines 10-11], etc., are nowhere to be found in the original specification.

6. Claims 1-3, 9 and 21-23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Despite a substantial amendment to claim 1, the claimed limitations still contain languages which appear to be vague and indefinite.

More particularly, (1) at line 6, the recitation "in a direction opposite from said surface layer" fails to define the direction clearly, because it is unclear how a direction is to be "opposite" from a surface layer? (2) at lines 11-13, the recitation "said foam cells in the polishing layer having an average space volume larger than an average space volume of foams formed in the surface layer" fails to clearly set forth what space volumes are being compared, because it is unclear how the "foams" formed in the surface layer would have an "average" space volume. Does it mean total space volume of the foams in the surface layer, or the average space volume of the "foam cells" in the surface layer? (3) at lines 14-17, the recitation "said foam cells formed in the polishing layer are interconnected by a network of continuous holes between said foam cells whose average space volume is substantially smaller than said average space volume of the foam cells formed in the polishing layer" appears to be vague, indefinite and confusing, because it is unclear what the term "whose" is directed to. Further, if the term "whose" is

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directed to the "continuous holes", it appears to be inherently the same as the space volume within the foam cells, and therefore would inherently have the same average space volume of the foam cells, and renders the recited comparison limitation "substantially smaller" unreasonable; if it is directed to the "foam cells", it also appears to be comparing the average space volume of foam cells to itself. Clarification is requested in the next reply.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor S. Chang whose telephone number is 571-272-1474. The examiner can normally be reached on 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel H. Morris can be reached on 571-272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

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like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Victor S Chang

Examiner Art Unit 1771

11/9/2006